



## CONTENTS OF VOLUME 45

### Number 1

- Limiting NO<sub>x</sub> and SO<sub>2</sub> Emissions from an Industrial-Size Fluidised-Bed Combustor . . . . . 1  
K. FINDLAY & S. D. PROBERT (UK)

### Number 2

- Effect of Refrigerant Flow Control on the Thermodynamic Performance of Reciprocating Chillers . . . . . 101  
S. A. TASSOU & H. O. AL-NIZARI (UK)
- Thermal Energy Storage: Dynamic Performance Characteristics of Cans Each Containing a Phase-Change Material, Assembled as a Packed-Bed . . . . . 117  
L. C. C. GONÇALVES (Portugal) & S. D. PROBERT (UK)
- Super-Subcooling with R12 and R22 Refrigeration Plants using Reciprocating Compressors . . . . . 157  
J. ZHANG, W. HU & M. S. J. HASHMI (Ireland)
- Gas-Powered Liquid Desiccant Dehumidifier . . . . . 167  
J. RIX, D. NEVRALA, L. CHAUVENT & S. D. PROBERT (UK)

### Number 3

- Wind Energy Potential in Turkey . . . . . 181  
H. KÜLÜNK (Turkey)
- Influences of Baffles on the Rate of Heat Recovery via a Finned-tube Head-exchanger Immersed in a Hot-Water Store . . . . . 191  
L. P. CHAUVENT, D. J. NEVRALA & S. D. PROBERT (UK)
- Potential Biomass Resources of Sicily for Electric-power Generation . . . . . 219  
V. ALDERUCCI, A. GIORDANO, A. IOVINO,  
N. GIORDANO (Italy) & V. D. PHILLIPS (USA)
- Exergy Efficiency of an Ammonia-water Absorption System for Ice Production . . . . . 241  
R. BEST, J. ISLAS & M. MARTINEZ (Mexico)

Energy and Economic Comparisons of Air-to-Air Heat Pumps and Conventional Heating Systems for the Turkish Climate . . . . .	257
K. KAYGUSUZ (Turkey)	
Evaluation of Capital-expenditure Appraisal Techniques for Combined Heat and Power Projects . . . . .	269
B. SMITH & D. F. BALL (UK)	
Book Reviews . . . . .	279

*Number 4*

Low-Cost, Non-selective, Solar-Radiation Detectors . . . . .	283
P. T. TSILINGIRIS (Greece)	
Stochastic Modelling of Temperatures for a Full-Scale Occupied Building Zone Subject to Natural Random Influences . . . . .	295
D. L. LOVEDAY & C. CRAGGS (UK)	
Solar Collectors for the Beirut Climate . . . . .	313
F. SAKKAL, N. GHADDAR & J. DIAB (Lebanon)	
Estimation of Zone Effective-Volume Using Tracer-Gas Techniques . . . . .	327
S. B. RIFFAT & K. W. CHEONG (UK)	
Evaluation of Mechanical Energy in Different Frames of Reference . . . . .	335
H. BARROW & D. G. CLAYTON (UK)	
Carbonization of Some Fast-Growing Species in Sudan . . . . .	347
P. KHRISTOVA & A. W. KHALIFA (Sudan)	
Comparative Study of Some Equations of State for Computing Properties of Refrigerant-12 . . . . .	355
K. ABU-ABDOU & M. F. ZEDAN (Saudi Arabia)	
Book Reviews . . . . .	371

